

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



540 551

(43) International Publication Date  
29 July 2004 (29.07.2004)

PCT

(10) International Publication Number  
**WO 2004/062556 A2**

(51) International Patent Classification<sup>7</sup>: **A61K**

(21) International Application Number:  
PCT/EP2004/000162

(22) International Filing Date: 13 January 2004 (13.01.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
A 36/2003 14 January 2003 (14.01.2003) AT  
A 1464/2003 17 September 2003 (17.09.2003) AT

(71) Applicant and

(72) Inventor: **MATTNER, Frank** [DE/AT]; Krottenbach-  
strasse 267, A-1190 Vienna (AT).

(74) Agent: **SONN & PARTNER PATENTANWAELTE**;  
Riemergasse 14, A-1010 Wien (AT).

(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-  
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,  
GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,  
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,  
ML, MR, NE, SN, TD, TG).

**Declaration under Rule 4.17:**

— *of inventorship (Rule 4.17(iv)) for US only*

**Published:**

— *without international search report and to be republished  
upon receipt of that report*

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: METHODS FOR PREVENTING AND TREATING ALZHEIMER'S DISEASE (AD)

(57) Abstract: The invention relates to the use of a compound comprising the following amino acid sequence  $X_1X_2X_3X_4X_5X_6$ , wherein  $X_1$  is an amino acid, except of C,  $X_2$  is an amino acid, except of C,  $X_3$  is an amino acid, except of C,  $X_4$  is an amino acid, except of C,  $X_5$  is an amino acid, except of C,  $X_6$  is an amino acid, except of C, and wherein  $X_1X_2X_3X_4X_5X_6$  is not DAEFRH, said compound having a binding capacity to an antibody being specific for the natural N-terminal A842 sequence DAEFRH, and 5-mers thereof having a binding capacity to said antibody being specific for the natural N-terminal A842 sequence DAEFRH, for the preparation of a vaccine for Alzheimer's disease.

WO 2004/062556 A2